



An Automated JHA Tool Making Safety Accessible

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- Certified Health Physicist (CHP) at Oak Ridge Associated Universities (ORAU)
- Experience in ES&H and Rad Con groups at
 - Bettis Atomic Power Laboratory
 - Oak Ridge National Laboratory
- Currently fill various ISM roles within ORAU
 - Group Site Safety Representative (SSR)
 - Frequent assistance and backup to ORISE Radiation Safety Officer

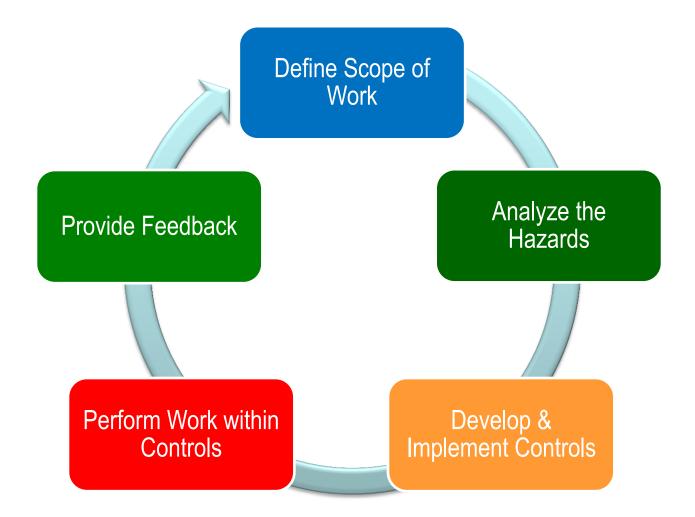


Outline

- Role of JHAs in ISM
- Need for JHA tools
- Creation of the JHA tool
- Demonstration
- Future Ideas
- Questions



Role of JHAs in ISM





Need for JHA Tools

- ISM in big companies vs. small companies
 - Mature safety program?
 - Broadly experienced staff?
 - Customized, contractor-specific safety tools?
- In D&D
 - Many hazards associated with field work
 - Many "small" contractors supporting projects
 - Need for freely available JHA tools to facilitate accurate hazard evaluation and mitigation



Creation of the JHA Tool

- Funded and coordinated by DOE-EM
- Design JHA tool that is
 - Free and readily available
 - Not specific to one site or contractor
 - Easy to use
 - Able to be updated and grow
- Coordinated with input from PNL, ANL, DOE-EM.
- Currently in a Test and Evaluation phase.



Creation of the JHA Tool

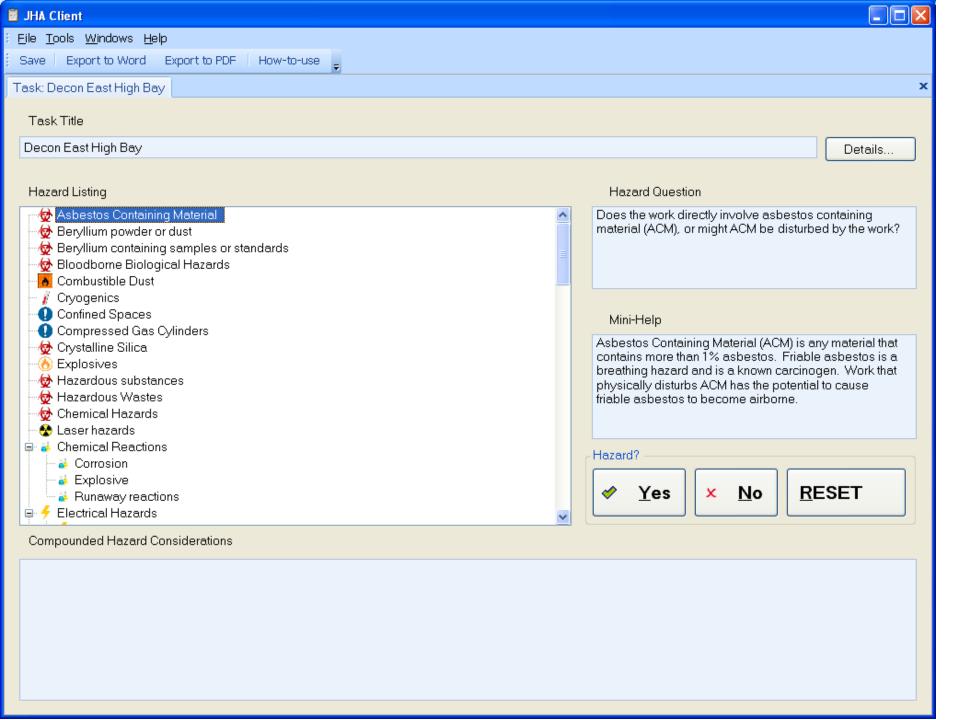
- Lead users through list of potential hazards grouped by category
- Provide clear decision points along with explanative text for each
- Generate JHA including default hazard mitigation controls
- Identify compounded hazards
- Ability to customize

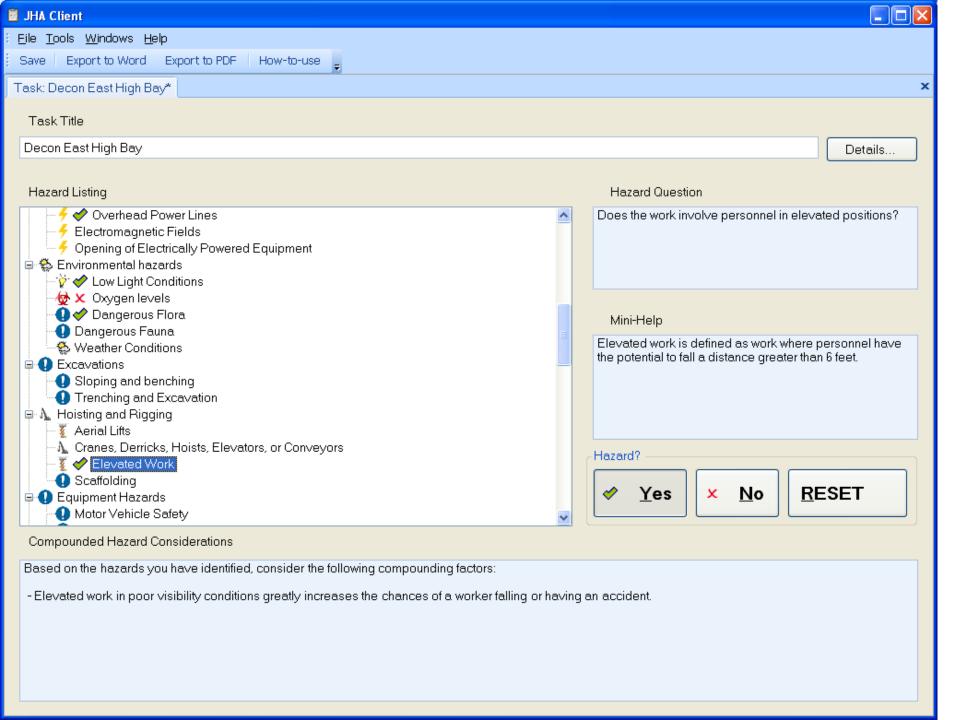


Demonstration - JHA Tool



Task Details						
Task Title						
Decon East High Bay						
Location						
Building 2251, East High Bay						
JHA#	Rev.#	Issue Date				
5842	0	7/27/2009 💌 🔲 Draft				
Authors of JHA						
John Doe Comments						
Supporting site D&D efforts of 2009.						
File Path:						
\\orau.net\files\users\buchholm\My Documents\JHA Tasks\Decon East High Bay.jha						
		Save Cancel				





Job Hazard Analysis

Task Title	Location	JHA#	Rev.#
Decon East High Bay	Building 2251, East High Bay	5842	0
Authors of JHA		Issue date	
Frank N. Furter		7/27/2009	
Comments			
Supporting site D&D efforts of 2009.			

Identified Hazards	Potential Health Effects	Hazard Mitigation Controls
Electrical Hazards	Electric shock, electrical burns, electrocution, renal damage, and death.	Deenergize equipment prior to performing inspection or repair. Conduction scheduled rourtine maintenance. Keep electrical tools properly maintained. Use appropriate PPE. Identify all energized lines (above and below ground) prior to initiating work.



Hazard categories include

- Asbestos
- Combustibles
- Hazardous chemicals
- Electrical
- Environmental

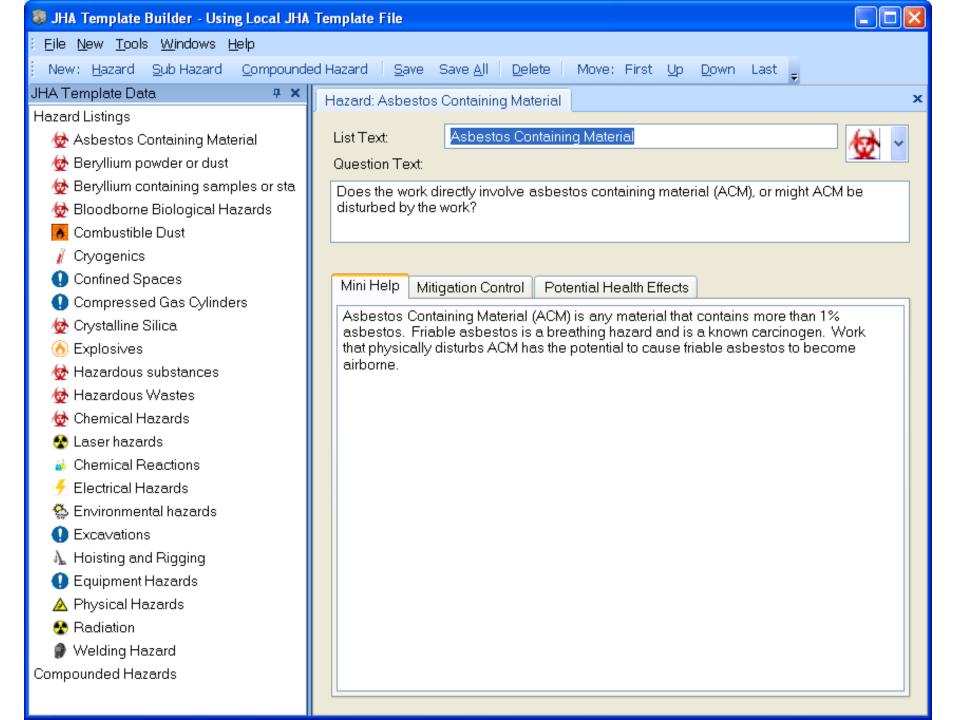
- Environmental
- Excavations
- Hoisting & rigging
- Physical hazards
- Radiation

and others



Demonstration - Template Builder





Future Ideas

- Add and clarify hazards and controls
- Generate and link relevant permits
- Link to Lessons Learned database



Software is in a Test and Trial phase

To participate, download from:

JHA Client:

http://orise.orau.gov/ieav/jha/JHAClient/Start.htm

JHA Template Builder:

http://orise.orau.gov/ieav/jha/JHATemplateBuilder/Start.htm



Questions?

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Partnerships for Innovation

